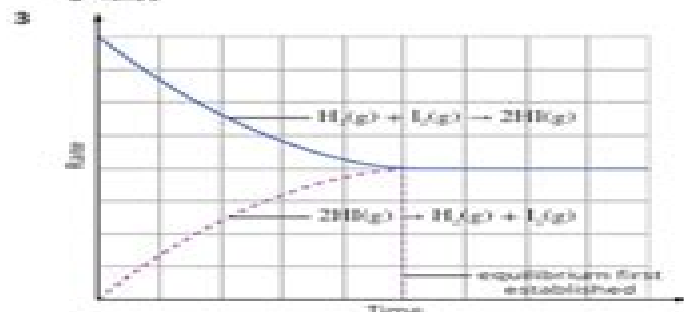


Chapter 2 Chemical equilibrium

2.1 Dynamic equilibrium

2.1 KEY QUESTIONS

1.
 - a An **open** system occurs when both matter and energy are exchanged between the system and the surroundings.
 - b Chemical equilibria can occur in **closed** systems.
 - c In some circumstances, a reversible reaction can form a **dynamic** equilibrium.
 - d The extent of reaction for chemical equilibria is **different** for different equilibria.
2.
 - a false
 - b false
 - c true
 - d false



4. closed, decreases, less, reverse, increases, equal
5.
 - a open; both energy and matter (carbon dioxide and water vapour) are exchanged with the surroundings
 - b closed; only energy can be exchanged with the surroundings. While the can is unopened, no matter is exchanged.
 - c open; both energy and matter are exchanged with the surroundings
6. B and F. Equilibrium can only occur in a closed system. At the molecular level, some of the sugar in the saturated sugar solution will continue to dissolve at the same rate as some is precipitated. In the unopened bottle of sparkling mineral water, the dissolved carbon dioxide will be in equilibrium with the gaseous carbon dioxide. In all of the other situations, the reverse reaction is not occurring at the same rate as the forward reaction, because the systems are open.
7. 130 kJ mol^{-1} . The activation energy is the difference between 390 kJ mol^{-1} and 260 kJ mol^{-1} , which is 130 kJ mol^{-1} .
8.
 - a Chemical equilibrium is 'dynamic' because both forward and reverse reactions occur at the same rate. An equilibrium develops between water vapour and water when wet clothes are in a sealed bag, with water evaporating as rapidly as water vapour condenses, so the clothes remain wet.
 - b When the bag is opened, water vapour escapes and the rate of evaporation exceeds the rate of condensation. The system is not in equilibrium and the clothes dry.
9.
 - a 0.07 mol L^{-1}
 - b 0 mol L^{-1}
 - c 0.03 mol L^{-1}
 - d 0.08 mol L^{-1}
 - e 0.04 moles
 - f The horizontal regions of the graph indicate that there is no change in concentration of NO_2 or N_2O_4 . This is when the system is at equilibrium and both the forward and reverse reactions are occurring at the same rate.
 - g 6 seconds
 - h As the reaction proceeds, the intensity of the brown colour will increase as the concentration of NO_2 increases until equilibrium is reached. Once equilibrium is reached, the colour of the reaction mixture will remain constant.

Reaction And Equilibrium Workbook Answers

Brian Arnold



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General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

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Table of Contents Reaction And Equilibrium Workbook Answers

1. Understanding the eBook Reaction And Equilibrium Workbook Answers
 - The Rise of Digital Reading Reaction And Equilibrium Workbook Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Reaction And Equilibrium Workbook Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Reaction And Equilibrium Workbook Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reaction And Equilibrium Workbook Answers
 - Personalized Recommendations
 - Reaction And Equilibrium Workbook Answers User Reviews and Ratings
 - Reaction And Equilibrium Workbook Answers and Bestseller Lists
5. Accessing Reaction And Equilibrium Workbook Answers Free and Paid eBooks

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 - Reaction And Equilibrium Workbook Answers Budget-Friendly Options
6. Navigating Reaction And Equilibrium Workbook Answers eBook Formats
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 - Reaction And Equilibrium Workbook Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Reaction And Equilibrium Workbook Answers
 - Highlighting and Note-Taking Reaction And Equilibrium Workbook Answers
 - Interactive Elements Reaction And Equilibrium Workbook Answers
8. Staying Engaged with Reaction And Equilibrium Workbook Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reaction And Equilibrium Workbook Answers
9. Balancing eBooks and Physical Books Reaction And Equilibrium Workbook Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reaction And Equilibrium Workbook Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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- Setting Reading Goals Reaction And Equilibrium Workbook Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reaction And Equilibrium Workbook Answers
- Fact-Checking eBook Content of Reaction And Equilibrium Workbook Answers
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13. Promoting Lifelong Learning
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